

Patent Number(s): JP49045015-A; JP79011289-B

Title: Dicarboxylic acid glycol esters prepn. - by transesterification in presence of an epoxide or styrene oxide with quaternary ammonium or tert amine compds

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Derwent Primary Accession Number: 1974-62035V [20]

Patents Cited by Inventor: 0 **Citing Patents:** 0 **Articles Cited by Inventor:** 0
Patents Cited by Examiner: 0 **Articles Cited by Examiner:** 0

Abstract:

Dicarboxylic acid glycol esters are prepd. by transesterification in the presence of (a) epoxide (I; X = halo, 1-10C alkyl, RO, p-R'C₆H₄O, where R = 1-17C alkyl and R' = 1-8C alkyl, halo, Ph) or styrene oxide and (b) quaternary ammonium salts or hydroxides. tertiary amines, their org. acid salts, phosphines, alkali or alk. earth metal salts, or M1M2R complex (M1-2 = metal, R = H, 1-4C alkyl), with or without usual ester-interchange catalysts. This effects rapid transesterification. In an example, heating 582 pts. di-me terephthalate and 410 pts. ethylene glycol with 4.5 pts. Ph glycidyl ether and 0.64 pts. cetyltrimethylammonium chloride at 197 degrees caused 98.5% transesterification in 30 min and complete reaction in 33 min. Polymn. with Sb2O3 gave a colourless polyester of high Intrinsic viscosity.

International Patent Classification: B011-031/02; C07C-067/03; C07C-069/00

Derwent Class: A41 (Monomers, Condensants (see also Section E)); E19 (Other organic compounds general - unknown structure, mixtures)

Derwent Manual Code(s): A02-A; A05-E01A; E10-G02

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